

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

First
Named
Inventor: Stephen A. Boppart

Serial No.: 10/717,437 Group Art Unit No. 3737

Filing Date: November 19, 2003 Examiner Joel Lamprecht

Title: Nonlinear Interferometric Vibrational
Imaging Confirmation No. 6997

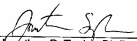
INFORMATION DISCLOSURE STATEMENT

M.S. – Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

In accordance with the provisions of 37 C.F.R. § 1.56, Applicants request that citation and examination of the references identified on the attached Form PTO-1449, required copies of which are enclosed herewith in accordance with 37 C.F.R. §1.98, be made during the course of examination of the above-referenced application for United States Letters Patent.

Respectfully submitted,



Jonathan P. Taylor, Ph.D.
Registration No. 48,338

Evan Law Group, LLC
600 West Jackson
Suite 625
Chicago, IL 60661
(312) 876-1400

Form PTO-1449 (Rev. 8-88)	Attorney Docket No. ILL09-004-US	Serial No. 10/17,437
First Named Inventor: Stephen A. Boppart		
Filing Date: November 19, 2003		Group: 3737

INFORMATION DISCLOSURE CITATION
(Use several sheets if necessary)

U.S. PATENT DOCUMENTS							
Examiner Initials*		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
	Z1	4,522,811	06/1985	Eppstein et al.			
	Z2	5,095,487	03/1992	Meyerhofer et al.			
	Z3	5,247,343	09/1993	Burch			
	Z4	5,303,710	04/1994	Bashkansky et al.			
	Z5	5,362,478	11/1994	Desai et al.			
	Z6	5,439,686	08/1995	Desai et al.			
	Z7	5,498,421	03/1996	Grinstaff et al.			
	Z8	5,505,932	04/1996	Grinstaff et al.			
	Z9	5,508,021	04/1996	Grinstaff et al.			
	Z10	5,512,268	04/1996	Grinstaff et al.			
	Z11	5,560,933	10/1996	Soon-Shiong et al.			
	Z12	5,635,207	06/1997	Grinstaff et al.			
	Z13	5,639,473	06/1997	Grinstaff et al.			
	Z14	5,648,506	07/1997	Desai et al.			
	Z15	5,650,156	07/1997	Grinstaff et al.			
	Z16	5,665,382	09/1997	Grinstaff et al.			
	Z17	5,665,383	09/1997	Grinstaff et al.			
	Z18	5,914,806	06/1999	Gordon II et al.			
	Z19	5,930,026	07/1999	Jacobson et al.			
	Z20	5,972,493	10/1999	Iwasaki et al.			
	Z21	6,002,480	12/1999	Izatt et al.			
	Z22	6,068,600	05/2000	Johnson et al.			
	Z23	6,158,292	12/2000	Quay			
	Z24	6,219,137 B1	04/2001	Vo-Dinh			
	Z25	6,231,834 B1	05/2001	Unger et al.			
	Z26	6,246,892 B1	06/2001	Chance			
	Z27	6,246,901 B1	06/2001	Benaron			
	Z28	6,249,271 B1	06/2001	Albert et al.			
	Z29	6,262,706 B1	07/2001	Albert et al.			
	Z30	6,262,833 B1	07/2001	Loxley et al.			
	Z31	6,264,917 B1	07/2001	Klaveness et al.			
	Z32	6,264,918 B1	07/2001	Johnson et al.			
	Z33	6,280,704 B1	08/2001	Schutt et al.			
	Z34	6,300,932 B1	10/2001	Albert			
	Z35	6,312,304 B1	11/2001	Duthaler et al.			
	Z36	6,315,981 B1	11/2001	Unger			

Examiner	Date Considered
----------	-----------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 608. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449 (Rev. 8-88)	Attorney Docket No. ILL09-004-US	Serial No. 10/717,437
First Named Inventor: Stephen A. Boppart		
Filing Date: November 19, 2003		Group: 3737

INFORMATION DISCLOSURE CITATION
(Use several sheets if necessary)

U.S. PATENT DOCUMENTS							
Examiner Initials*		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
	Z37	6,344,272 B1	02/2002	Oidenburg et al.			
	Z38	6,428,811	08/2002	West et al.			
	Z39	6,514,767	02/2003	Natan			
	Z40	6,529,277	03/2003	Weitekamp			
	Z41	6,530,944 B2	03/2003	West et al.			
	Z42	6,538,805	03/2003	Norwood et al.			
	Z43	6,539,156	03/2003	Dickson et al.			
	Z44	6,818,423 B1	09/2003	Dekorsy et al.			
	Z45	6,795,777 B1	09/2004	Scully et al.			
	Z46	2002/0054912 A1	05/2002	Kim et al.			
	Z47	2002/0168161 A1	11/2002	Price et al.			
	Z48	2003/0068496	04/2003	Wei et al.			
	Z49	2004/0058458	03/2004	Anker et al.			
	Z50	2005/0078363 A1	04/2005	Gugel			
	Z51	2006/0068848 A1	03/2006	Frankel			
	Z52	2005/168735	08/2005	Boppart et al.			
	Z53	6,208,886	03/2001	Alfano et al.			
	Z54	5,459,570	10/1995	Swanson et al.			
	Z55	6,307,633	10/2001	Mandella et al.			
	Z56	6,307,634	10/2001	Hitzenberger et al.			
	Z57	6,108,081	08/2000	Holtom et al.			

OTHER ITEMS - NON PATENT LITERATURE DOCUMENTS	
Include, as applicable: Author, Title, Date, Publisher, Edition or Volume, Pertinent Pages	
X1	Al et al., "Electrostatic layer-by-layer nanosassembly on biological microtemplates: platelets", Biomacromolecules, 3:560-564, 2002.
X2	Amsden et al., "An examination of factors affecting the size, distribution, and release characteristics of polymer microbeads made using electrostatics", J. Control. Release, 43:163-166, 1997.
X3	Amsden, "The production of uniformly sized polymer microspheres", Pharm. Res., 16:1140-1143, 1999.
X4	Belasubramanian et al., "Extraction and dispersion of large gold nanoparticles in nonpolar solvents", J. Dispers. Sci. Tech. 22:485-89, 2001.
X5	Belasubramanian et al., "Dispersion and stability studies of rasorcinare-encapsulated gold nanoparticles", Langmuir, 18:3676-81, 2002.
X6	Barton et al., "Use of microbubbles as an optical coherence tomography contrast agent", Acad. Radiol, 9, (Suppl 1):552-555, 2002.
X8	Blackwell et al., "New approaches to olefin cross-metathesis", J. Am. Chem. Soc., 122:58-71, 2000.

Examiner	Date Considered
----------	-----------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449 (Rev. 8-88)	Attorney Docket No. ILL09-004-US	Serial No. 10/717,437
First Named Inventor: Stephen A. Boppart		
Filing Date: November 19, 2003		Group: 3737

INFORMATION DISCLOSURE CITATION
(Use several sheets if necessary)

Examiner Initials*	OTHER ITEMS - NON PATENT LITERATURE DOCUMENTS Include, as applicable: Author, Title, Date, Publisher, Edition or Volume, Pertinent Pages
X17	Boppart et al., "High-Resolution Optical Coherence Tomography-Guided Laser Ablation of Surgical Tissue", J. Surgical Research, 82:275-84, 1999.
X19	Boppart, "Endoscopic Optical Coherence Tomography Imaging of Barrett's Esophagus", M.D. Thesis, Harvard University, 2000.
X22	Boyer et al., "Photothermal Imaging of Nanometer-Sized Metal Particles Among Scatterers", Science, 297:1160-63, 2002.
X24	Bugaj et al., "Novel fluorescent contrast agents for optical imaging of in vivo tumors based on a receptor-targeted dye-peptide conjugate platform", J. Biomedical Optics, 6:122-33, 2001.
X25	Burns et al., "Tumor-localizing and photosensitizing properties of hematoporphyrin derivative in hamster buccal pouch carcinoma", Oral Surg. Oral Med. Oral Pathol., 81:368-372, 1986.
X26	Cain et al., "Thresholds for Visible Lesions in the Primate Eye Produced by Ultrashort Near-Infrared Laser Pulses", Investigative Ophthalmology & Visual Science, 40:2343-49, 1999.
X27	Cain et al., "Visible Retinal Lesions from Ultrashort Laser Pulses in the Primate Eye", Investigative Ophthalmology & Visual Science, 36:879-888, 1995.
X28	Caruso et al., "Nanoengineering of inorganic and hybrid hollow spheres by colloidal templating", Science, 282:1111-1114, 1998.
X29	Cepak et al., "Preparation and Stability of Template-Synthesized Metal Nanorod Sols in Organic Solvents", J. Phys. Chem. B, 102:9985-90, 1998.
X31	Christiansen et al., "Physical and biochemical characterization of Albunex™, a new ultrasound contrast agent consisting of air-filled albumin microparticles suspended in a solution of human albumin", Biotechnol. Appl. Biochem., 19:307-20, 1994.
X32	Clark et al., "Second harmonic generation properties of fluorescent polymer-encapsulated gold nanoparticles", J. Am. Chem. Soc., 122:10234-35, 2000
X34	Decher "Fuzzy Nanocomposites: Toward Layered Polymeric Multicomposites", Science, 277:1232-1237, 1997.
X35	Desai et al., "Controlled and targeted drug delivery with biocompatible protein shell microspheres", 20 th Annual Meeting of Society of Biomaterials, April 4-9, 1994, Boston, MA: Proc. Soc. Biomaterial, 20:112, 1994.
X36	Dick et al., "Computed tomography of experimental liver abscesses using a new liposomal contrast agent", Investigative Radiology, 31:194-203, 1996.
X37	Dowlatshahi et al., "Histologic Evaluation of Rat Mammary Tumor Necrosis By Interstitial Nd:YAG Laser Hyperthermia", Lasers in Surgery and Medicine, 12:159-164, 1992.
X39	El-Sayed "Some interesting properties of metals confined in time and nanometer space of different shapes", Accounts of Chemical Research, 34:257-64, 2001.
X40	Freeman et al., "Self-Assembled Metal Colloid Monolayers: An Approach to SERS Substrates", Science, 267:1629-1632, 1995.
X41	Fu et al., "Visual evidence of acidic environment within degrading poly(lactic-co-glycolic acid) (PLGA) microspheres", Pharmaceutical Research, 17:100-106, 2000.

Examiner	Date Considered
----------	-----------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449 (Rev. 8-88)	Attorney Docket No. ILL09-004-US	Serial No. 10/17,437
INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)	First Named Inventor: Stephen A. Boppart	
	Filing Date: November 19, 2003	Group: 3737

Examiner Initials*	OTHER ITEMS - NON PATENT LITERATURE DOCUMENTS Include, as applicable: Author, Title, Date, Publisher, Edition or Volume, Pertinent Pages
X43	Gazelle et al., "Nanoparticle computed tomography contrast agents for blood pool and liver-spleen imaging", Acad. Radiol., 1:373-376, 1994.
X44	Geny et al., "Safety of a new transpulmonary echocontrast agent (Albunex®) in repeated echocardiographic studies in patients", Clin. Cardiol., 20:111-115, 1997.
X45	Gimenez-Conti et al., "The hamster cheek pouch carcinogenesis model", J. Cellular Biochemistry Supplement, 17F:83-90, 1993.
X46	Gram, "Drug absorption and distribution", in Modern Pharmacology with Clinical Applications 5 th Ed., Craig et al., eds., Little, Brown, & Co., Inc.; Boston, MA, pp. 13-24, 1997.
X47	Grinstaff et al., "Air-filled proteinaceous microbubbles: synthesis of an echo-contrast agent", Proc. Natl. Acad. Sci. USA, 88:7708-7710, 1991.
X48	Grubbe et al., "Ring-Closing Metathesis and Related Processes in Organic Synthesis", Acc. Chem. Res., 28:446-52, 1995.
X49	Haes et al., "A nanoscale optical biosensor: sensitivity and selectivity of an approach based on the localized surface plasmon resonance spectroscopy of triangular silver nanoparticles", J. Am. Chem. Soc., 124:10596-604, 2002.
X50	Handley et al., "Colloidal gold labeling studies related to vascular and endothelial function, hemostasis and receptor-mediated processing of plasma macromolecules", European J. Cell Biology, 43:163-74, 1987.
X51	Handley et al., "Colloidal gold-low density lipoprotein conjugates as membrane receptor probes", Proc. Natl. Acad. Sci. USA, 78:368-71, 1981.
X52	Handley "Methods for Synthesis of Colloidal Gold", Colloidal Gold: Principles, Methods, and Applications, (Academic Press), vol. 1, pp. 13-32, 1989.
X53	Hardikar et al., "Coating of nanosize silver particles with silica", J. Colloid and Interface Science, 221:133-36, 2000.
X54	Harrington et al., "Gene therapy for prostate cancer: current status and future prospects", J. Urology, 166:1220-33, 2001.
X55	Harti et al., "Ultrahigh-Resolution Optical Coherence Tomography Using Continuum Generation In An Air-Silica Microstructure Optical Fiber", Optics Letters, 26:608-610, 2001.
X57	Hiergeist et al., "Application of magnetite ferrofluids for hyperthermia", J. Magnetism and Magnetic Materials, 201:420-22, 1999.
X58	Hirsch et al., "A Whole Blood Immunoassay Using Gold Nanoshells", Analytical Chemistry, 75:2377-2381, 2003.
X60	Jackson et al., "Silver Nanoshells: Variations in Morphologies and Optical Properties", J. Phys. Chem. B, 105:2743-46, 2001.
X61	Jana et al., "Wet chemical synthesis of high aspect ratio cylindrical gold nanorods", J. Phys. Chem. B, 105:4065-67, 2001.
X62	Jang et al., "Visualization of Coronary Atherosclerotic Plaques in Patients Using Optical Coherence Tomography: Comparison With Intravascular Ultrasound", J. American College of Cardiology, 39:604-609, 2002.

Examiner	Date Considered
----------	-----------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449 (Rev. 8-88)	Attorney Docket No. ILL09-004-US	Serial No. 10/717,437
First Named Inventor: Stephen A. Boppart		
Filing Date: November 19, 2003		Group: 3737

INFORMATION DISCLOSURE CITATION
(Use several sheets if necessary)

Examiner Initials*	OTHER ITEMS - NON PATENT LITERATURE DOCUMENTS Include, as applicable: Author, Title, Date, Publisher, Edition or Volume, Pertinent Pages
X63	Jensen et al., "Electrodynamics of noble metal nanoparticles and nanoparticle clusters", J. Cluster Science, 10:295-317, 1999.
X64	Jin et al., "Photoinduced conversion of silver nanospheres to nanoprisms", Science, 294:1901-03, 2001.
X65	Jordan et al., "Magnetic fluid hyperthermia (MFH): Cancer treatment with AC magnetic field induced excitation of biocompatible superparamagnetic nanoparticles", Magnetism and Magnetic Materials., 201:413-19, 1999.
X66	Jue et al., "Addition of sulfhydryl groups to <i>Escherichia coli</i> ribosomes by protein modification with 2-iminothiolane (methyl 4-mercaptopbutyrimidate)", Biochemistry, 17:5399-5406, 1978.
X67	Kempka et al., "Binding, uptake, and transcytosis of ligands for mannose-specific receptors in rat liver: an electron microscopic study", Experimental Cell Research, 176, 38-48, 1988.
X68	Keye et al., "Argon Laser Therapy of Endometriosis: A Review of 92 Consecutive Patients' Fertility and Sterility, 47:208-212, 1987.
X69	Kim et al., "Hollow silica spheres of controlled size and porosity by sol-gel processing", J. Am. Ceram. Soc., 74:1987-1992, 1991.
X70	Kim et al., "Photochemical synthesis of gold nanorods" J. Am. Chem. Soc., 124:14316-17, 2002.
X71	Kim et al., "Self-Organization of Large Gold Nanoparticle Arrays", J. Am. Chem. Soc., 123:7955-56, 2001.
X72	Kim et al., "Fabrication of hollow silica aerogel spheres by a droplet generation method and sol-gel processing" J. Vac. Sci. Technol. A., 7:1181-1184, 1989.
X73	Kneipp et al., "Ultrasensitive Chemical Analysis by Raman Spectroscopy", Chem. Rev., 99:2957-75, 1999.
X74	Kolb-Bachofen et al., "Electron microscopic evidence for an asialoglycoprotein receptor on Kupffer cells: localization of lectin-mediated endocytosis", Cell, 29:859-66, 1982.
X75	Kolbeck, "The biomedical applications of protein microspheres", Ph.D. Doctoral Thesis, University of Illinois, Urbana-Champaign, title page and pp. 153, 159-160, 1999.
X76	Korbelik et al., "Photofrin accumulation in malignant and host cell populations of various tumours", British Journal of Cancer, 73:506-513, 1996.
X77	Langer "Drug delivery and targeting", Nature, 392:5-10, 1998.
X78	Larson et al., "Water-Soluble Quantum Dots for Multiphoton Fluorescence Imaging in Vivo", Science, 300:1434-1436, 2003.
X79	Lasic et al., "Liposomes revisited", Science, 267:1275-1276, 1995.
X80	Lee et al., "Delivery of liposomes into cultured KB cells via folate receptor-mediated endocytosis", J. Biological Chemistry, 269:3198-3204, 1994.
X81	Lee et al., "Engineered microsphere contrast agents for optical coherence tomography", Optics Letters, Vol. 28, No. 17, pp. 1546-1548, 2003.

Examiner

Date Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449 (Rev. 8-88)	Attorney Docket No. ILL09-004-US	Serial No. 10/717,437
First Named Inventor: Stephen A. Boppart		
Filing Date: November 19, 2003		Group: 3737
INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)		

Examiner Initials*	OTHER ITEMS - NON PATENT LITERATURE DOCUMENTS Include, as applicable: Author, Title, Date, Publisher, Edition or Volume, Pertinent Pages
X82	Lee et al., "Optical Characterization of Contrast Agents for Optical Coherence Tomography", Proceedings of SPIE, vol. 4967, pp. 129-134, 2003.
X83	Leelarasamee et al., "A method for the preparation of polylactic acid microcapsules of controlled particle size and drug loading", J. Microencapsulation, 5:147-157, 1988.
X84	Leitgeb et al., "Spectral measurement of absorption by spectroscopic frequency-domain optical coherence tomography", Optics Letters, 25:820-22, 2000.
X86	Li et al., "Imaging Needle for Optical Coherence Tomography", Optics Letters, 25:1520-1522, 2000.
X87	Li et al., "On the growth of highly ordered pores in anodized aluminum oxide", Chem. Mater., 10:2470-80, 1998.
X88	Li et al., "Polycrystalline nanopore arrays with hexagonal ordering on aluminum", J. Vac. Sci. Technol. A, 17:1428-31, 1999.
X89	Licha, "Contrast agents for optical imaging", Topics in Current Chemistry, 222:1-29, 2002.
X90	Lin et al., "Measurement of tissue optical properties by the use of oblique-incidence optical fiber reflectometry", Applied Optics, 36:136-43, 1997.
X91	Lin et al., "Intraocular Microsurgery with a Picosecond Nd:YAG Laser", Lasers in Surgery and Medicine, 15:44-53, 1994.
X92	Liu et al., "In vivo measurement of oxygen concentration using sonochemically synthesized microspheres", Biophysical J., 67:896-901, 1994.
X93	Liu et al., "A novel two-step silica-coating process for engineering magnetic nanocomposites", Chem. Mater., 10:3936-40, 1998.
X94	Liz-Marzan et al., "Homogeneous silica coating of vitreophobic colloids", Chem. Commun., 731-32, 1998.
X95	Lvov et al., "Nanoparticle/polyion assembly on microtemplates (lipid tubules and latex spheres)", Colloids and Surfaces B: Biointerfaces, 23:251-256, 2002.
X96	Lvov et al., "Thin film nanofabrication via layer-by-layer adsorption of tubule halloysite, spherical silica, proteins and polycations", Colloids and Surfaces A: Physicochem. Eng. Aspects, 198-200:375-382, 2002.
X97	Marks et al., "Nonlinear interferometric vibrational imaging, E-print@arxiv.org/physics/0311071, URL http://www.arxiv.org/abs/physics/0311071 , pp. 1-5, 2003.
X98	Marks et al., "Study of an Ultrahigh-Numerical-Aperture Fiber Continuum Generation Source For Optical Coherence Tomography", Optics Letters, 27:2010-2012, 2002.
X99	Marks et al., "Pulse shaping strategies for nonlinear interferometric vibrational imaging optimized for biomolecular imaging", Conference Proceeding: EMBC 2004: 26th Annual International Conference of the Engineering in Medicine and Biology Society (1-5 Sept. 2004, San Francisco, CA), vol. 2, 7 pages, (eaccess number 8255487).
X100	Masuda et al., "Ordered metal nanohole arrays made by a two-step replication of honeycomb structures of anodic alumina", Science, 268:1466-68, 1995.
X101	Methias et al., "Tumor-selective radiopharmaceutical targeting via receptor-mediated endocytosis of Gallium-67-deferoxamine-folate", J. of Nuclear Medicine, 37:1003-1008, 1996.

Examiner

Date Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449 (Rev. 8-88)	Attorney Docket No. ILL09-004-US	Serial No. 10/717,437
INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)	First Named Inventor: Stephen A. Boppart	
	Filing Date: November 19, 2003	Group: 3737

Examiner Initials*	OTHER ITEMS - NON PATENT LITERATURE DOCUMENTS
	Include, as applicable: Author, Title, Date, Publisher, Edition or Volume, Pertinent Pages
X102	McNamara III et al., "Sonoluminescence temperatures during multi-bubble cavitation", Nature, 401:772-775, 1999.
X103	Micali et al., "Separation of Scattering and Absorption Contributions in UV/Visible Spectra of Resonant Systems", Anal. Chem., 73:4958-63, 2001.
X104	Minton et al., "The Laser in Surgery. A 23 Year Perspective.", American Journal of Surgery, 151:725-729, 1986.
X105	Mock et al., "Composite plasmon resonant nanowires", Nano Letters, 2:465-69, 2002.
X106	Mock et al., "Shape effects in plasmon resonance of individual colloidal silver nanoparticles", J. Chem. Phys., 116:5755-59, 2002.
X107	Mohwald, "From Langmuir monolayers to nanocapsules", Colloids and Surfaces A: Physicochem. Eng. Aspects, 171:25-31, 2000.
X108	Morgner et al., "Spectroscopic optical coherence tomography", Optics Letters, 25:111-13, 2000.
X109	Nicewarner-Peña et al. "Submicrometer metallic barcodes", Science, 294:137-41, 2001.
X110	Nielsen et al., "Self-ordering regimes of porous alumina: the 10% porosity rule", Nano Letters 2:677-80, 2002.
X111	Novak et al., "Purification of molecularly bridged metallic nanoparticle arrays by centrifugation and size exclusion chromatography", Anal. Chem., 73:5758-61, 2001.
X112	Oldenburg et al., "Light Scattering From Dipole and Quadrupole Nanoshell Antennas", Appl. Phys. Lett., 75:1063-65, 1999.
X113	Pastemack et al., "Resonance Light Scattering: A New Technique For Studying Chromophore Aggregation", Science, 269:935-39, 1995.
X114	Pathak et al., "Detection of squamous neoplasia by fluorescence imaging comparing porfimer sodium fluorescence to tissue autofluorescence in the hamster cheek-pouch model", American Journal of Surgery, 170:423-426, 1995.
X115	Peters, "All about Albumin, in Biochemistry, Genetics, and Medical Applications, (Academic Press, New York), 3 pages, 1996.
X116	Pinkerton et al., "Aerosolized fluorescent microspheres detected in the lung using confocal scanning laser microscopy", Microscopy Research and Technique, 26:437-443, 1993.
X119	Pollack et al., "Circumferential Argon Laser Photocoagulation for Prevention of Retinal Detachment", Eye, vol. 8, pp. 419-422, 1994.
X121	Prudhomme et al., "Interstitial Diode Laser Hyperthermia in the Treatment of Subcutaneous Tumor", Lasers in Surgery and Medicine, 19:445-450, 1996.
X123	Puliaffo et al., "Optical Coherence Tomography of Ocular Diseases", Slack Inc, Thorofare, N.J., pp. 3-34, 369-374, 1995.
X124	Puzlay et al., "Encagement of Gold Nanoclusters in Crosslinked Resorcinarene Shells", Supramolecular Chemistry, 14:291-94, 2002.

Examiner	Date Considered
----------	-----------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449 (Rev. 8-88)	Attorney Docket No. ILL09-004-US	Serial No. 10/717,437
First Named Inventor: Stephen A. Boppart		
Filing Date: November 19, 2003		Group: 3737
INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)		

Examiner Initials*	OTHER ITEMS - NON PATENT LITERATURE DOCUMENTS
	Include, as applicable: Author, Title, Date, Publisher, Edition or Volume, Pertinent Pages
X125	Quaroni et al., "Preparation of Polymer-Coated Functionalized Silver Nanoparticles", J. Am. Chem. Soc., 121:10642-43, 1999.
X126	Russell-Jones, "Use of vitamin B ₁₂ conjugates to deliver protein drugs by the oral route", Critical Reviews in Therapeutic Drug Carrier Systems, vol. 15, no. 6, pp. 557-586, 1998.
X127	Sadtler et al., "Spherical ensembles of gold nanoparticles on silica: electrostatic and size effects", Chem. Commun., 1604-05, 2002.
X128	Sansdrap et al., "Influence of manufacturing parameters on the size characteristics and the release profiles of nifedipine from poly(DL-lactide-co-glycolide) microspheres", International Journal of Pharmaceutics, 98:157-164, 1993.
X129	Schaefer et al., "Real-Time Digital Signal Processing-Based Optical Coherence Tomography and Doppler Optical Coherence Tomography", IEEE Transactions on Biomedical Engineering, Vol. 51, No. 1, pp. 186-190, 2004.
X130	Schaefer "Real-Time, Digital Signal Processing-Based Optical Coherence Tomography and Optical Doppler Tomography", Master Thesis, University of Illinois at Urbana-Champaign, 2001.
X135	Sevick-Muraca et al., "Fluorescence-enhanced, near infrared diagnostic imaging with contrast agents", Current Opinion in Chemical Biology, Op. Chem. Biol., 6:642-50, 2002.
X136	Shiga et al., "Preparation of Poly(D,L-lactide) and Copoly(lactide-glycolide) Microspheres of Uniform Size", J. Pharm. Pharmacol., 48:891-895, 1996.
X137	Shipway et al., "Nanoparticle arrays on surfaces for electronic, optical, and sensor applications", ChemPhysChem., 1:18-52, 2000.
X139	Slaga et al., "An animal model for oral cancer", J. National Cancer Institute Monographs, 13:55-60, 1992.
X140	Sokolov et al., "Real-Time Vital Optical Imaging of Precancer Using Anti-Epidermal Growth Factor Receptor Antibodies Conjugated to Gold Nanoparticles", Cancer Research, 63:1999-2004, 2003.
X141	Sönnichsen et al., "Drastic reduction of plasmon damping in gold nanorods", Physical Review Letters, Vol. 88, No. 7:077402-1 to 077402-4, 2002.
X142	Sönnichsen et al., "Spectroscopy of Single Metallic Nanoparticles Using Total Internal Reflection Microscopy", Appl. Phys. Lett., 77:2949-51, 2000.
X143	Stavens et al., "Encapsulation of Neutral Gold Nanoclusters by Resorcinarenes", Langmuir, 15:8337-39, 1999.
X144	Su et al., "Tumor characterization with dynamic contrast-enhanced MRI using MR contrast agents of various molecular weights", Magnetic Resonance in Medicine, 39:259-269, 1998.
X146	Suslick et al., "Protein Microencapsulation of Nonaqueous Liquids", J. Am. Chem. Soc., 112:7807-7809, 1990.
X147	Suslick et al., "Versatile sonochemical reaction vessels" in Experimental Organometallic Chemistry: A Practicum in Synthesis and Characterization, (A. Wayda, Daresburg MY, eds. ACS Symposium Series, Washington, D.C.), pp. 195-197, 1987.
X148	Suslick, "Sonochemistry", Science, 247: 1439-1445, 1990.

Examiner	Date Considered
----------	-----------------

*EXAMINER. Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449 (Rev. 8-88)	Attorney Docket No. ILL09-004-US	Serial No. 10/717,437
INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)	First Named Inventor: Stephen A. Boppart	
	Filing Date: November 19, 2003	Group: 3737

Examiner Initials*	OTHER ITEMS - NON PATENT LITERATURE DOCUMENTS Include, as applicable: Author, Title, Date, Publisher, Edition or Volume, Pertinent Pages
X149	Tanaka et al., "Direct visualization of colloidal gold-bound molecules and a cell-surface receptor by ultrahigh-resolution scanning electron microscopy", J. Microscopy, 161:455-61, 1991.
X152	Tearney et al., "Catheter-based optical imaging of a human coronary artery", Circulation, 94: 3013, 1996.
X153	Tearney et al., "High-Speed Phase- and Group-Delay Scanning with a Grating-Based Phase Control Delay Line", Optics Letters, vol. 22, no. 23:1811-1813, 1997.
X157	Tamplaton et al., "Monolayer-protected cluster molecules", Acc. Chem. Res., 33:27-36, 2000.
X158	Timmerman et al., "Resorcinarenes" Tetrahedron, 52:2663-704, 1996.
X159	Tkachenko et al., "Multifunctional Gold Nanoparticle-Peptide Complexes for Nuclear Targeting", J. Am. Chem. Soc., 125:4700-4701, 2003.
X160	Toth et al., "Retinal effects of ultrashort laser pulses in the rabbit eye", Investigative Ophthalmology & Visual Science, 36:1910-17, 1995.
X161	Toubian et al., "Magnetically-inducible optical contrast agents for optical coherence tomography", presented at the Optical Society of America Biomedical Topical Meeting, Miami, FL, April 7-10, 2002.
X162	Tripp et al., "Self-assembly of cobalt nanoparticle rings", J. Am. Chem. Soc., 124:7914-15, 2002.
X163	Turkevich et al., "A Study of the Nucleation and Growth Processes in the Synthesis of Colloidal Gold", Faraday Soc., 11:55-75, 1951.
X164	Tuling, "The immunology of cutaneous DNA immunization", Current Opinion in Molecular Therapeutics, vol. 1, no. 2, pp.216-225, 1999.
X165	Ung et al., "Controlled method for silica coating of silver colloids. Influence of coating on the rate of chemical reactions", Langmuir, 14:3740-48, 1998.
X166	van der Laan et al., "In vitro activity of novel antifolates against human squamous carcinoma cell lines of the head and neck with inherent resistance to methotrexate", Int. J. Cancer, 51:909-914, 1992.
X167	Van Der Smitten et al., "Ligand-induced clustering of asialoglycoprotein receptors on rat hepatocytes at 4 °C", European J. of Cell Biology, 60:122-30, 1993.
X168	Van Der Smitten et al., "Quantitative analysis of clustering on biological membranes: methodology and application to ligand-induced asialoglycoprotein receptor redistribution on rat hepatocytes", European J. of Cell Biology, 59:45-54, 1996.
X169	van der Zande et al., "Colloidal dispersions of gold rods: synthesis and optical properties", Langmuir, 16:451-58, 2000.
X170	Violante et al., "Improved detectability of VX2 carcinoma in the rabbit liver with contrast enhancement in computed tomography", Radiology, 134:237-239, 1980.
X171	Vitkin et al., "Optical and thermal characterization of natural (<i>Sepia officinalis</i>) melanin", Photochemistry and Photobiology, 59:455-62, 1994.
X172	Vo-Dinh, "Surface-Enhanced Raman Spectroscopy Using Metallic Nanostructures", Trends in Analytical Chemistry, 17:557-82, 1998.

Examiner	Date Considered
----------	-----------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449 (Rev. 8-88)	Attorney Docket No. ILL09-004-US	Serial No. 10/717,437
INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)	First Named Inventor: Stephen A. Boppart	
	Filing Date: November 19, 2003	Group: 3737

Examiner Initials*	OTHER ITEMS - NON PATENT LITERATURE DOCUMENTS Include, as applicable: Author, Title, Date, Publisher, Edition or Volume, Pertinent Pages
X173	Wang et al., "Semiconductor quantum dot-labeled microsphere bioconjugates prepared by stepwise self-assembly", Nano Lett., 2:857-861, 2002.
X174	Wang et al., "Use of a Laser Beam with an Oblique Angle of Incidence to Measure the Reduced Scattering Coefficient of a Turbid Medium", Applied Optics, 34:2362-2366, 1995.
X175	Webb et al., "Sonochemically produced fluorocarbon microspheres: a new class of magnetic resonance imaging agent", J. Magnetic Resonance Imaging, 6:675-683, 1996.
X176	Wei et al., "Resorcinarene-encapsulated nanoparticles: building blocks for self-assembled nanostructures", J. Inclusion Phenomena Macroscopic Chemistry, 41, 83-86, 2001.
X177	Wei et al., "Synthesis and Characterization of Resorcinarene-Encapsulated Nanoparticles", Mater. Res. Soc., Symp. Proc. Ser., 581:59-63, 1999.
X178	Wei et al., "Tunable Surface-Enhanced Raman Scattering from Large Gold Nanoparticle Arrays", ChemPhysChem, 2:743-45, 2001.
X179	Wong et al., "Sonochemically produced hemoglobin microbubbles", Mat. Res. Soc. Symp. Proc., 372:89-94, 1995.
X180	Xu et al., "Electromagnetic Contributions to Single-Molecule Sensitivity in Surface-Enhanced Raman Scattering", Physical Review E, 62:4318-24, 2000.
X182	Yguerabide et al., "Light-scattering submicroscopic particles as highly fluorescent analogs and their use as tracer labels in clinical and biological applications", Analytical Biochemistry, 262:137-56, 1998.
X183	Yu et al., "Gold nanorods: electrochemical synthesis and optical properties", J. Phys. Chem. B, 101:6661-64, 1997.
X184	Zaheer et al., "In vivo near-infrared fluorescence imaging of osteoblastic activity", Nature Biotechnology, 19:1148-54, 2001.
X185	Marks et al., "Interferometric differentiation between resonant Coherent Anti-Stokes Raman Scattering and nonresonant four-wave-mixing processes", arXiv:physics/0403007, pp. 1-8, 2004.
X186	Vinegoni et al., "Nonlinear optical contrast enhancement for optical coherence tomography", Optics Express, Vol. 12, no. 2, p. 331-341, 2004.
X187	Kee et al., "Simple approach to one-laser, broadband coherent anti-Stokes Raman scattering microscopy", Optics Letters, Vol. 29, No. 23, p. 2701-2703, 2004.
X188	Kano et al., "Vibrationally resonant imaging of a single living cell by supercontinuum-based multiplex coherent anti-Stokes Raman scattering microspectroscopy", Optics Express, Vol. 13, Issue 4, pp. 1322-1327, 2005.
X189	Gao et al., "Formulation, Characterization, and Sensing Applications of Transparent Poly(vinyl alcohol)-Polyelectrolyte Blends", Chem. Mater., 10, pp. 2481-2489, 1998.
X190	Marks et al., "Molecular Species Sensitive Optical Coherence Tomography Using Coherent Anti-Stokes Raman Scattering Spectroscopy", Coherence Domain Optical Methods and Optical Coherence Tomography in Biomedicine VII, Proceedings of SPIE, Vol. 4956, pp. 9-13, 2003.
X191	Bredfeldt et al., "Non-linear interferometric vibrational imaging", Conference on Lasers and Electro-optics, CLEO '03, pp. 309-311, 2003.

Examiner	Date Considered
----------	-----------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449 (Rev. 8-88)	Attorney Docket No. ILL09-004-US	Serial No. 10/717,437
INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)	First Named Inventor: Stephen A. Boppart	
	Filing Date: November 19, 2003	Group: 3737

Examiner Initials*	OTHER ITEMS - NON PATENT LITERATURE DOCUMENTS Include, as applicable: Author, Title, Date, Publisher, Edition or Volume, Pertinent Pages
X192	Vinegoni et al., "Nonlinear optical contrast enhancement for optical coherence tomography", http://www.arxiv.org/abs/physics/0312114 , 13 pages (2003)
X193	Zumbusch et al., "Three-dimensional vibrational imaging by coherent anti-Stokes Raman scattering", Phys. Rev. Lett., 82(20), pp. 4142-4145, 1999.
X194	Cheng et al., "An epi-detected coherent anti-Stokes Raman scattering (E-CARS) microscope with high spectral resolution and high sensitivity", J. Phys. Chem., 105(7), pp. 1277-1280, 2001.
X195	Hashimoto et al., "Molecular vibration imaging in the fingerprint region by use of coherent anti-Stokes Raman scattering microscopy with a collinear configuration", Opt. Lett., 25(24), pp. 1768-1770, 2000.
X196	Voikmer et al., "Vibrational imaging with high sensitivity via epidected coherent anti-Stokes Raman scattering microscopy", Phys. Rev. Lett., 87(2):023901-1-4, 2001.

Examiner	Date Considered
----------	-----------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.